FINAL CLEANUP ACTION PLAN

SPOKANE RIVER UPRIVER DAM PCB SITE

SPOKANE, WA

Washington State Department of Ecology
Toxics Cleanup Program
Eastern Regional Office
Spokane, WA

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LIST OF ACRONYMS & ABBREVIATIONS

AET	Apparent Effects Threshold
ARARs	Applicable, Relevant and Appropriate Requirements
CAP	Cleanup Action Plan
CFR	Code of Federal Regulations
DCAP	Draft Cleanup Action Plan
DW	Dry Weight
EPA	Environmental Protection Agency
EqP	Equilibrium Partitioning
FCAP	Final Cleanup Action Plan
FS	Feasibility Study
LAET	Lowest Apparent Effects Threshold
MTCA	Model Toxics Control Act
PCBs	Polychlorinated Biphenyls
PLPs	Potentially Liable Parties
RCRA	Resource Conservation and Recovery Act
RCW	Revised Code of Washington
RI	Remedial Investigation
RM	River Mile
SMS	Sediment Management Standards
SPMD	Semi-Permeable Membrane Device
SQV	Sediment Quality Value
TOC	Total Organic Carbon

TSCA	Toxics Substance Control Act
WAC	Washington Administrative Code

1.0 INTRODUCTION

This Final Cleanup Action Plan (FCAP) presents the Washington State Department of Ecology's (Ecology's) selected cleanup action to address Polychlorinated Biphenyl (PCB) contaminated sediments that have accumulated behind the Upriver Dam on the Spokane River. The activities will be performed in compliance with the Washington Administrative Code (WAC), Washington's Sediment Management Standards (SMS) (Ecology, 1995; WAC 173-204), and the Model Toxics Control Act (MTCA) (Ecology, 2001; WAC 173-340). Ecology expects that remediation efforts will be performed pursuant to the terms of a forthcoming Consent Decree between Ecology and Avista Development Corporation. The work to be performed is consistent with the United States Environmental Protection Agency's (EPA's) September 12, 2002 Record of Decision (ROD) for heavy metal contamination in the Coeur d'Alene Basin and Spokane River (USEPA, 2002). Ecology recognizes that this FCAP does not provide complete remedies for the contaminants other than PCBs identified across the area of investigation. The cleanup actions described in this FCAP are designed to mitigate risks associated with sediments containing PCBs and also incidentally co-located contaminants. The Site lies within a larger area listed under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Heavy metal contamination in the upper reaches of the river and proposed remedial activities are discussed in the ROD. The United States Environmental Protection Agency (EPA) is the lead agency responsible for the remediation of heavy metals originating in the Coeur d'Alene Basin and deposited in the sediments behind the Upriver Dam and elsewhere.

A Cleanup Action Plan (CAP) is one of a series of documents used by Ecology in the cleanup process conducted under MTCA, in chapter 70.105D of the Revised Code of Washington (RCW), and implemented under WAC 173-340. An iteration of the Spokane River Upriver Dam PCB Site (the Site) Cleanup Action Plan was made available to the public for review and comment. This initial document, describing Ecology's proposed remedial actions for the Site is referred to as the Draft Cleanup Action Plan (DCAP). Ecology closely considered concerns expressed regarding the planned remedial actions for the Spokane River Upriver Dam PCB Site. After careful evaluation, Ecology determined that the cleanup level and remedies previously defined in the DCAP are protective of all the media found on the Site. This iteration of the CAP represents Ecology's final selection of site-specific cleanup levels and remedial actions for the Upriver Dam PCB Site and shall be considered a Final Cleanup Action Plan (FCAP). This FCAP is essentially identical to the draft version with the exception of minor edits to ensure consistency and an expansion of Section 8.3, to clarify monitoring expectations associated with the cleanup actions described in this decision document.

The alternatives chosen for the Upriver Dam PCB Site (Site definition is provided in Section 2.1) are protective of human health and the environment. Selected cleanup actions chosen for the Site include actions that isolate PCBs from the water column and the biologically active surface layer of the sediment. PCB-contaminated sediments that are more accessible to the public will be removed and disposed of offsite in accordance with all state and federal regulations. Detailed descriptions of Ecology's selected cleanup actions are provided in Section 7.3. Forthcoming engineering designs and planning documents associated with the selected alternatives will provide for future monitoring of the Site in order to assure the long-term effectiveness of all remedial actions in accordance with WACs 173-340-400 and 173-340-410.

1.1 The Cleanup Process and the Cleanup Action Plan

This FCAP provides a general description of the selected cleanup action (s) and sets forth functional requirements that the cleanup must meet including: a general description of the cleanup action(s) developed in accordance with WAC 173-340-350 through 173-340-390; a summary of the rationale for selecting the selected alternatives; a brief summary of other cleanup action alternatives evaluated in the Feasibility Study; general cleanup standards considered in determining site-specific cleanup levels and points of compliance for each hazardous substance and media of concern; the schedule and plans for implementation including restoration time frames; institutional controls; applicable state and federal laws; a preliminary determination by Ecology that the selected cleanup action will comply with WAC 173-340-360; and, where the cleanup action involves on-site containment, specification of the types, levels, and amounts of hazardous substances to remain on site and the measures that will be used to prevent exposure, migration, and contact with those substances This FCAP provides a record of site-specific cleanup levels, impending cleanup actions, and the processes Ecology used to make remediation decisions for the Site. Finally, issuance of the CAP Consent Decree is significant in that it represents the start date of the implementation schedule described in Section 9.0.

This decision document presents Ecology's selected cleanup action for the Spokane River Upriver Dam PCB Site. The selected cleanup action is chosen based upon information in the following documents:

- Draft Final Focused Remedial Investigation Report, Upriver Dam PCB Sediments Site - February, 2005. The Draft Final Remedial Investigation (RI) Report was made available for public review and comment from March 22 through May 6, 2005, concurrent with the Site's Draft Feasibility Study and Draft Cleanup Action Plan.
- Draft Feasibility Study Technical Screening Memorandum, Upriver Dam PCB Site – March 29, 2004.
- Draft Final Focused Feasibility Study, Upriver Dam PCB Sediments Site - February 2005.

Portions of the text and the figures in this FCAP are borrowed from these documents.

1.2 Declaration

Ecology's selected cleanup action will comply with WAC 173-340-360. This selected remedy is protective of human health and the environment, and is consistent with the preference for permanent solutions to the maximum extent practicable requirement under Chapter 70.105D.030(1)(b) RCW.

1.3 Applicability

This FCAP is applicable to the Upriver Dam PCB Site. Cleanup standards and cleanup actions have been developed as an overall remediation process being conducted under the MTCA for this Site specifically.

1.4 Administrative Record

The documents used to make decisions discussed in this FCAP are constituents of the administrative record for the Site. The entire administrative record for the Site is available for public review by appointment at Ecology's Eastern Regional Office, 4601 N. Monroe, Spokane,

WA 99205-1295 Documents that were made available for public comment and review are also available at the Spokane Public Library – 906 West Main, Spokane, WA 99201; Spokane Valley Library – 12004 East Main, Spokane Valley, WA; and the Argonne County Library – 4322 North Argonne Road, Spokane, WA 99206.